

Ducor® 3048 TC

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 3048TC is a clarified, controlled rheology modified homopolymer. The product is nucleated and contains an anti-electrostatic agent, and exhibits a very good flowability, high-transparency and stiffness.

Food Contact Applications: This grade is in compliance with most regulations regarding food contact applications (EU, FDA). Specific information is available upon request.

General Information			
Additive	Antistatic		
	Clarifier		
	Nucleating Agent		
Features	Antistatic		
	Controlled Rheology		
	High Clarity		
	High Flow		
	High Stiffness		
	Homopolymer		
	Nucleated		
Uses	Thin-walled Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
	EC 1935/2004		
	EN 71-3		
	EU 10/2011		
	EU 2000/53/EC		
	EU 2002/96/EC (WEEE)		
	EU 2005/84/EC		
	EU 94/62/EC		
	FDA 21 CFR 177.1520(a) 1 (i)		
	FDA 21 CFR 177.1520(c) 1.1a		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	48	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method

Ball Indentation Hardness (H 358/30)	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2/1
Tensile Stress (Yield)	39.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	> 20	%	
Shear Modulus	1000	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.0	kJ/m ²	
0°C	1.5	kJ/m ²	
23°C	2.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	11	kJ/m ²	
23°C	75	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	1.1	kJ/m ²	
23°C	2.2	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A
--	98.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (1000 µm, Injection Molded)	11	%	ASTM D1003

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